Data	Intake	Exhaust	
Valve seat width b	1.3-1.6	2.5-2.9	
Valve seat angle $\alpha$		30°	
Correction angle top $eta$		60°	
Correction angle bottor	mγ	60°	A V
Permissible runout of va	alve seat	0.03	1054-6078
Minimum distance "a" new valve seats	with new valves ar	nd	Q ———
Intake		+ 0.17 to — 0.23	N W K
Exhaust		+ 0.12 to — 0.28	
Maximum distance "a" machined (refinished) v		nd	angumu.
Intake		1.0	1054 - 5694
Exhaust			
The max, distance is rec	luced by the same	amount by which the c	ylinder head parting surface has been refinis
Valve stem wear (wear I	imit)		0.05
Special tools			
Valve adjusting wrench (2 each)	14 mm		11004-6356 615 589 00 01 00
Holding wrench for valv	e	1004-7118	615 589 00 03 00
Assembly mandrel for v	alve stem seals	11004.5191	617 589 00 43 00
Plug gage 10 mm dia. fo exhaust valve guide	r intake and	1004-8211	615 589 00 21 00

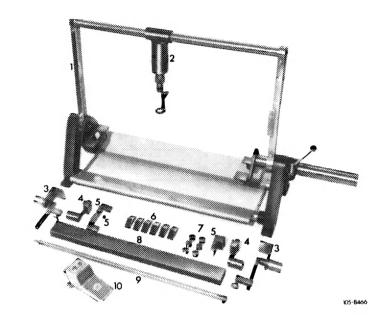
## **Conventional tools**

Cylinder head clamping fixture	e.g. made by Christ, D-6801 Neckarhausen Order No. DBK 60–2
Valve seat machining tool	e.g. made by Hunger, D-8000 München Type VDNSL 1/45/30, order No. 236.03.308
Test kit for valve seats	e.g. made by Hunger, D-8000 München Order No. 216.93.300

## Note

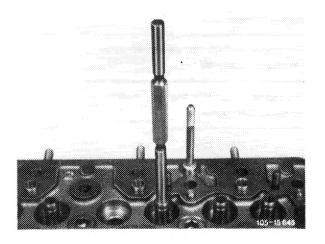
Clamp cylinder head into clamping fixture for disassembly and machining.

Machine valve seats with valve machining tool, with valve seat grinding machine or with valve seat milling cutter.



## Machining valve seats

1 Check valve guides and replace, if required (05–285).



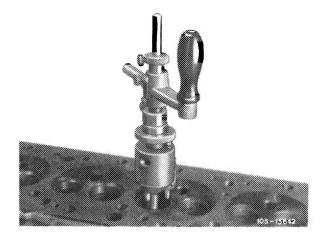
2 Machine valve seat (30°) (refer to operating instructions of tool manufacturer).

## Attention!

Release pilot (013) only after runout of valve seat has been checked.

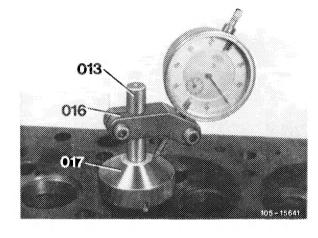
3 Measure valve seat width b and correct below to  $60^{\circ}$ , if required.

If required, also correct clearance ( $\beta$ ) to 60°.



4 Check runout of valve seat.

For this purpose, slip test sleeve (017) with dial gage holder (016) and dial gage on pilot (013) and rotate test sleeve. The permissible runout of 0.03 mm should then not be exceeded.



013 Pilot 016 Dial gage holder 017 Test sleeve

5 Introduce new valve and measure max, distance a.

